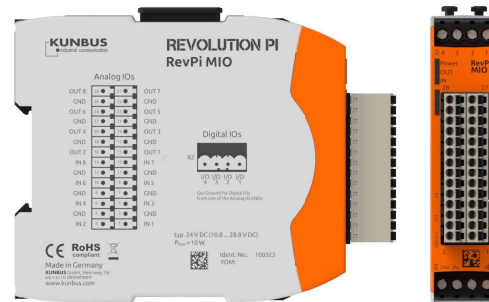


REVOLUTION PI

RevPi MIO

Article No.: 100323



Technical Data

Standard	EN 61131-2
Housing dimensions (H x B x D)	96 x 22.5 x 110.5 mm
Housing type	DIN rail housing (for DIN rail version EN 50022)
Housing material	Polycarbonate
Weight	Approx. 115 g
IP Code	IP20
Power supply	24 V DC (10.8 ... 28.8 V DC)
Current consumption	410 mA maximum load
Max. power consumption - system	10 W
Operating temperature	-20...+55 °C
Storage temperature	-40...+85 °C
Humidity (at 40 °C)	93 % (non-condensing)
Interfaces	8 analog inputs 8 analog outputs 4 digital inputs/outputs
Analog inputs	Measurement range: 0...10 V DC Rated voltage: 24 V DC Input impedance: > 100 kOhm ADC type: Single ended Max. overall input error: ±0.3 % (of full-scale range) Sample rate: 8 ms / 125 Hz Resolution: 1 mv (process image) Galvanic Isolation: No
Analog input modes	Analog input, logic level input
Analog outputs	Output voltage: 0...10 V DC Rated voltage: 24 V DC Output impedance: 30 mA during short-circuit -> 330 Ohm during short-circuit Max. output current: 10 mA 10 V @ 1K DAC type: PWM Sample rate: 30mV peak to peak PWM frequency: 8 ms / 125 Hz Max. overall output error: ±0.3 % (of full-scale range) Data control rate: 1 PiBridge cycle Resolution: 4.48 mV Galvanic Isolation: No
Analog output modes	Analog output, logic level output

Technical Data

Digital in/outputs	<p>Voltage: 24 V DC Impedance: > 100 kOhm</p> <p>Description</p> <ul style="list-style-type: none">• Switchable current source approx. 30 mA• Edge improvement (Line driver)• Level detection (Threshold 1 V)• EMC protection <p>GPO [PIN OUT]</p> <ul style="list-style-type: none">• $U_{high} = 24\text{ V}$ (at $I_{high} < 30\text{ mA}$)• $I_{high} \rightarrow \text{max. } 40\text{ mA}$• Short-circuit proof (short circuit always Low)• Can be loaded with external 24 V (then always High)• Feedback via GPI [PIN IN] (Error message possible)• Line driver up to 1 km at 2 kHz <p>GPI [PIN IN] (Internal 24 V GPO [PIN OUT] = High)</p> <p>By short circuit via switch/variable resistor -> GPI becomes low</p> <ul style="list-style-type: none">• No external voltage needed• Idle mode High• Threshold at 1 V• No filtering <p>GPI [PIN IN] (external voltage GPO [PIN OUT] = LOW)</p> <p>External voltage with reference to GND (GNDs must be connected)</p> <ul style="list-style-type: none">• External voltage 24 V +/- 10 %• Idle mode LOW• Threshold at 1 V• No filtering
Digital modes	Digital input, digital output, PWM input, PWM output, pulse input, pulse output, encoder input
EMC interference emission	According to EN 61000-6-4
EMC immunity	According to EN 61000-6-2
Optical indicator	3 status LEDs (bi-color), two of them freely programmable
RoHS conformity	Yes
CE conformity	Yes